No.



9000026

## THE WALKED STAYLES OF ANDER WAY

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Tothereas, there has been presented to the

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, therefore, this certificate of plant variety protection is to grant unto the said applicant(s) and the successors, heirs or assigns of the said applicant(s) for the term of eighteen years from the date of this grant, subject to the payment of the required fees and periodic replenishment of viable basic seed of the variety in a public repository as provided by LAW, the right to exclude others from selling the variety, or offering it for sale, or reproducing it, or importing it, or exporting it, or using it in producing a hybrid or different righty therefrom, to the extent provided by the Plant Variety Protection Act.

IE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS SOFT CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BARLEY

'Selway'

In Festimony Minereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 26th day of February in the year of our Lord one thousand nine hundred and ninety-three.

Allost:

Kenneth Harard

Plant Variety Protection Office Agricultural Marketing Service

Nike EST Cotacy of Agriculture Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Office, OIRM, Room 404-W, Washington, D.C. 20250; and to the Office of Management and Budget, Paperwork Reduction Project (OMB #581-0055), Washington, 20250.

of management and badget, Paperwork Reduction Project (ONIB #0581-00	55), wasnington, 20250.	FURM	APPROVED: UN	AB U581-0U55, EXP	ires 1/31/91	
U.S. DEPARTMENT OF A AGRICULTURAL MARKE		Application is required in order to determine if a plant variety protection				
APPLICATION FOR PLANT VARIET (Instructions on	certificate is to be issued (7 U.S.C. 2421) Information is held confidential until certificate is issued (7 U.S.C. 2426).					
NAME OF APPLICANT(S) (as it is to appear on the Certificate)	3. VARIETY NAME					
Plant Breeders 1 Inc.	-107	Selwa	<b>ay</b>			
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP)		5. PHONE (include area	· L		CIAL USE ONLY	7
851 East 7th Street Moscow, Idaho 83843		(208)882-4	483	F Date	00026	
6. GENUS AND SPECIES NAME	7. FAMILY NAME (Botanic	al)		Time	w. 16,198	!Z
Hordeum vulgare	Gramineae		i L	N G	A.M	] P.M.
8. CROP KIND NAME (Common Name)	9. 0	PATE OF DETERMINATION		E	l Examination Fee:	:
Barley		August 1, 1	984	S Date		. – – –
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGAI	NIZATION (Corporation, partr	nership, association, etc.)		C Certificat	<u>- 16,1989</u> e Fee:	<del>/</del>
11. IF INCORPORATED, GIVE STATE OF INCORPORATION	12. DA	TE OF INCORPORATION		\$ 25D		
Idaho		muary 1, 19			16, 1993	<u>;</u>
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO Wayne L. McProud 851 East 7th Street Moscow, Idaho 83843	SERVE IN THIS APPLICATIO	(:	RS 208)882 de area code):	-		
<ul> <li>b. Exhibit B, Novelty Statement.</li> <li>c. Exhibit C, Objective Description of Variety.</li> <li>d. Exhibit D, Additional Description of Variety.</li> <li>e. Exhibit E, Statement of the Basis of Applicant's Ownersh</li> <li>f. Seed Sample (2,500 viable untreated seeds). Date Seed</li> <li>g. Filing and Examination Fee (\$2,150) made payable to "T</li> <li>15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SO</li> </ul>	Sample mailed to Plant Vireasurer of the United Sta	ites."				
Profection Act.)  YES (if "YES," answer items 16 and 17 be	_	D," skip to item 18 below)	0000.	10011077 00(4) 07 17	o i ium vanci,	
16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS NUMBER OF GENERATIONS?	TO 17. IF "YES" TO	ITEM 16, WHICH CLASSES	OF PRODUCT	ION BEYOND BR	EEDER SEED?	
YES NO	Four	NDATION	REGISTER	ED	<b>X</b> CERTIFIE	:D
18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VA  YES (II "YES," through Plant Variety Protection Act  NO  19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR M	Patent Act. Give date	::				
YES (If "YES," give names of countries and dates)  NO						
20. The applicant(s) declare(s) that a viable sample of basic se request in accordance with such regulations as may be appl. The undersigned applicant(s) is (are) the owner(s) of this uniform, and stable as required in section 41, and is entitle. Applicant(s) is (are) informed that false representation here.	icable. sexually reproduced n d to protection under th	ovel plant variety, as e provisions of section	nd believe(s 42 of the Pla	) that the vai	riety is distinct	
SIGNATURE OF APPLICANT (Owner(s))  Wayne House		Breeders 1	Inc.	DATE   1 / 13	/89	
FORM CSSD-470 (5-69) Edition of FORM LS-470, 3-86, is obsolete.	Secre Plant		Inc.	11//3/	189	1

REVISED EXHIBIT A: Origin and breeding history of 'Selway'

'Selway', previously designated PB1-82-2R-107, resulted from the 1979 cross PB1-78-2R-23 X 'Seven'. The parents PB1-78-2R-23 and 'Seven' were both selections from a Plant Breeders 1 Inc. bulk population derived from intercrossing European and North American two rowed spring barleys.

In 1981 an F3 single plant selection was made from the above cross and entered into Plant Breeders 1's 1982 screening trial. As the line from this F3 plant selection segregated for susceptibility and resistance to powdery mildew, it was head hilled in 1984 to select for mildew resistance. From this head hilling five lines were selected that were resistant to mildew and showed the least amount of shattering in a late season hail storm. In yield and agronomic tests and in morphological measurements made from 1986 through 1988, these five (5) sublines were indistinguishable. The initial 1990 distribution of 'Selway' resulted from breeders seed comprised in equal measure of seed from each subline. For future seed increases all five sublines will be combined and only one unified bulk will be grown. 'Selway' has remained stable and uniform.

#### EXHIBIT B: Novelty statement

'Selway' is most similar to the two rowed spring barley 'Seven'. 'Selway' differs from 'Seven' in having yellow-green foliage color (146-A on Royal Horticultural Society Colour Charts) versus 'Sevens' green foliage color (137-B on the Royal Horticultural Society Colour Charts). At booting 'Selway's' flag leaf is drooping while 'Seven's' flag leaf is erect. 'Selway's' head exertion (distance from flag leaf to base of spike) averages 3 to 10 centimeters while 'Seven's' head exertion averages 0 to 3 centimeters. 'Selway's' neck is slightly snakey while 'Seven's' neck is mostly straight. 'Selway's' first leaf below flag leaf averages about 2.9 centimeters longer (TABLE 1) and about 2.5 millimeters wider (TABLE 2) than 'Seven's'.

TABLE 1: Comparing the two rowed spring barleys 'Selway' and 'Seven' for the length of first leaf below flag leaf (in centimeters).

Year/ Location	'Selway'	'Seven'					
1988/	23.4 27.3 25.6 25.6 19.2	28.0 22.6 21.8 25.4 22.6					
Potlatch	24,8 26.7 24.8 27.2 24.9	16.5 23.6 20.5 20.5 18.6					
	24.1 24.4 24.8 27.3 24.8	21.9 23.4 23.5 22.3 22.5					
	31.1 30.5 21.7 27.5 25.4	22.9 23.6 23.0 20.0 33.6					
	27.2 23.9 28.4 26.7 24.8	20.3 18.6 19.5 23.4 20.3					
	Average = 25.60	Average = 22.36					
1989/	27.8 30.9	26.5 26.4					
Culdesac	34.6 27.0	26.2 26.3					
	26.7 31.3	25.5 24.6					
		26.5 23.4					
	31.7 23.0	26.5 25.0					
	likili shan soni sibih dopih dapa dapa tiga tapa sibah mem baga dapi tang dapa term terih terih memi sonik didik ilikil	rice then their less were area rich right right right right right richt were reten verse verse area little tilde right energ reser					

Average = 28.17

Average = 25.69

24.02

TABLE 2: Comparing the two rowed spring barleys 'Selway' and 'Seven' for the width of first leaf below flag leaf (in millimeters).

Year/ Location		'Selway'					'‰⇔∨en'				
rigge grafe meng prom verte ppere organ gryge	ean 4		1610- ACR 1100- 8517	somet visus delina delina	eeth afsh alum		H40 H-00 M	121 <b>00341 34414 16544 3444</b> 6 3	پیس معبر سمر سب		1140 MM RML R
1988	1, "	7 15	15	18	1.22		13	13	12	13	12
Potlatch	1.6	5 14	155	1.55	17		11	12	13	13	10
	1.4	1 16	16	17	16		12	12	1.35	12	11
	1 6	5 17	1.3	14	15		1.3	11	12	13	12
	1.7	5 14	14	15	1.3		11	1.2	10	12	12
	, H\$11 44	Ste rome were party and in more	15427 <b>516</b> 16 Techt 1646C 1	heat tesse even more	nest was ven		1044 ALT DA	N CHIN MEN ANN MARK MARK M	MAI WANN MICH ADAY	,. 2000 2001 8591 1969	Octo with Hear
·	e e	Avera	ge =	15.	1.		ŀ.	Avera(	je =	12.	Q
1989		17	18					16	14		
Culdesac		17	1.55					14	15		
		15	18					14	14		
•		1.4	14					15	14		
		17	1.55					13	13		
·		ra two stret sees tond store	the time of the little of					N 1607C 61-23 61671 -1844 F	hm 1192 1414	4101 HTT 4314 (MM	100m and 1775
		Avera	an an	16.	O		A	iver a	<b>]@</b> ==	14.	7") Ab-

#### UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, POULTRY, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C (Barley)

### OBJECTIVE DESCRIPTION OF VARIETY

INSTRUCTIONS: See Reverse. DARLE I (NORTH NAME OF APPLICANT(S)	DEUM VOLGARE)
Plant Breeders 1 Inc.	FOR OFFICIAL USE ONLY PYPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	9000026
Moscow, Idaho 83843	VARIETY NAME OR TEMPORARY DESIGNATION SELWAY
Place the appropriate number that describes the varietal character.  Place a zero in first box (i.e. 089 or 09) when number	
1. GROWTH HABIT:	
1 = SPRING 2 = FACULTATIVE WINTER 3 = WINTER	Barly Growth: 1 = PROSTRATE 2 = SEMIPROSTRATE 3 = ERECT
2. MATURITY (50% Flowering):	
1 = EARLY (California Mariout) 2 = MIDSEASON (Betzes)	3 = LATE (Frontier)
	LIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON
4 No. of days Later than 5 ) 5 = PIROLINE 6 = P	PRIMUS 7 = UNITAN
3, PLANT HEIGHT (From soil level to top of head):	
3 1 = SEMIDWARF 2 = SHORT (California Mariout) 3 = ME	EDIUM TALL (Betzes) 4 = TALL (Conquest)
<u> </u>	ALIFORNIA MARIOUT 3 = CONQUEST 4 = DICKSON PRIMUS 7 = UNITAN
0 2 Cm. Taller than 5	
STEM:	
2 Exertion (Flag to spike at maturity): 3 = 10 - 15 cm.	1 Anthocyanin: 1 = ABSENT 2 = PRESENT
NO. OF NODES (Originating from node above ground)	en la grande de la companya de la c
1 = CLOSED 2 = V-SHAPED 3 = OPEN 4 = MODIFIED CLOSED OR OPEN	1 = STRAIGHT 2 = SNAKY  Shape of Neck: 3 = OTHER (Specify)
LEAF:	4 - DOOOBING
Basal leaf sheath (seedling): 1 = GLABROUS 2 = PUBESCENT	1 - DROOPING 2 = UPRIGHT
Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY 3 = WAXY	1 6 MM. WIDTH (First leaf below flag leaf)
2 7 CM. LENGTH (First leaf below flag leaf)	1 Anthocyanin in leaf sheath: 1 = ABSENT 2 = PRESENT
i, HEAD:	1 = LAX 2 = ERECT (Not dense)
1 Type: 1 = TWO-ROWED 2 = SIX-ROWED	1 = LAX 2 = ERECT (Not dense)  3 = ERECT (Dense)
Shape: 1 = TAPERING 2 = STRAP 3 = CLAVATE 4 = OTHER (Specify)	Waxiness: 1 = ABSENT (Glossy) 2 = SLIGHTLY WAXY 3 = WAXY
1 = NONE 2 = AT TIP 3 = 1/4 - 1/2 OF HEAD	Rachis (Hair on edge): 1 = LACKING 2 = FEW 3 = COVERE
. GLUME:	
2 Length: 1 = 1/3 OF LEMMA 2 = 1/2 OF LEMMA 3 = MORE THAN 1/2 OF LEMMA	Hairs: 1 = NONE 2 = SHORT 3 = LONG
2 Hair covering: 1 = NONE 2 = RESTRICTED TO MIDDLE	3 - CONFINED TO BAND 4 - COMPLETELY COVERED
2 Awns: 1 = LESS THAN EQUAL TO LENGTH OF GLUMES 3 = MORE THAN EQUAL TO LENGTH OF GLUMES	2 = EQUAL TO LENGTH OF GLUMES
Awn Surface: 1 = SMOOTH 2 = SEMISMOOTH 3 = ROU	JGH

-				the state of the s	and the same of th		1911 1			
8. LE	EMMA: 1 = A	WNLESS	2 = AWNL	ETS ON CENTRAL R	OWS AWNLES	S ON LATER	AL BOWS			
्थ	1 = AWNLESS 2 = AWNLETS ON CENTRAL ROWS, AWNLESS ON LATERAL ROWS 3 = SHORT ON CENTRAL ROWS, AWNLETS ON LATERAL ROWS 4 = SHORT (less than equal to length of spike) 5 = LONG (longer than spike) 6 = HOODED									
3	Awn Surface: 0 = AWNLESS 1 = SMOOTH 2 = SEMISMOOTH 3 = ROUGH									
1	Teeth: 1 = ABSENT 2 = FEW 3 = NUMEROUS Hair: 1 = ABSENT 2 = PRESENT									
2			SSION 2 = VERSE CRE	SLIGHT CREASE	2 Rach	nilla Hairs: 1	I = SHORT	2 = LONG		
9. ST	IGMA:									
2	Hairs: 1 = FEV	V 2=M	ANY							
10. S	EED:			١						
2	Type: 1 = NA	KED 2	= COVEREC		1 Hairs	on Ventral Fu	arrow: 1 = AE	SSENT 2 = PRESENT		
4	Length: 1 = SI 4 = M	HORT (8.0 IIDLONG T	mm.) 2 = O LONG (9.0	SHORT TO MIDLONG 0 - 10.5 mm.)	G ( 7.5 - 9.0 mm		DLONG (8.5 - 9 NG (10.0 mm.)			
3	Wrinkling of hull	l: 1 = NA	KED 2=	SLIGHTLY WRINKLE	D  3 = SEM	IWRINKLED	4 = WRINK	CLED		
1:	Aleurone Color:	1 = COL	ORLESS (WI	nite or Yellow) 2≖1	BLUE					
o c	PERCENT A	BORTIVE			49	GMS. PER 100	O SEEDS			
11. D	ISEASE: (0 = Not	t Tested, 1 =	Susceptible	. 2 = Resistant)						
	SEPTORIA		<del></del>	ВLОТСН	О ѕрот	вьотсн	2	POWDERY MILDEW		
0	LOOSE SMUT		0 BACT	ERIAL BLIGHT	0 COVE	RED SMUT	0	FALSE LOOSE SMUT		
<u>o</u> :	STEM RUST		0 LEAF	RUST	0 SCAB		0	SCALD		
0	AY		O BSMV		O BYDY	,		OTHER (Specify)		
12. IN	SECT: (0 = Not te	ested, 1 = Su	sceptible, 2	= Resistant)				· · · · · · · · · · · · · · · · · · ·		
	GREEN BUG	-		SH GRAIN APHID	O CHINO	CH BUG	0	ARMYWORM		
<b>0</b> c	RASS HOPPERS		O CERIA	L LEAF BETTLE	ОТНЕ	R (Specify)	<del>-</del>			
· ,'	HESSIAN FLY R	(	O GP	O A	0 B	Oc				
	COSTAN LET I	ACES	0 в	O E	0 =	OG				
12 (1)	EMICAL (0 - N	Touted			<u> </u>					
0	IEMICAL (0 = Not DDT	i i ested, 1	<sub> </sub>	ER (Specify)						
14 IRV	DICATE WHICH Y	/ARIETY *	IOST CLOSS	LY RESEMBLES THA	T CHESSORT	<u> </u>	· · · · · · · · · · · · · · · · · · ·			
	HARACTER	1	NAME OF V				***	ME OF WARIETY		
		Seve		AITELT		ACTER	Seven	ME OF VARIETY		
	Plant tillering	Seve		· · · · · · · · · · · · · · · · · · ·	Domon V			V V V V V V V V V V V V V V V V V V V		
	_eaf size	Seve			Coleoptile		Seven	7 -37 20 20 20 20		
	eaf color	Seve			Seedling pi	gmentation	Seven			
	_eaf carriage	~ ~ ~ ~		****	<u> </u>		N C A CIT			
REFER		lowing pul		nay be used as a refe	rence aid for	the standard	ization of cha	aracter descriptions and		

- 1. Wiebe, G. A., and D. A. Reid, 1961, Classification of Barley Varieties Grown in the United States and Ganada in 1958, Technical Bulletin No. 1224, U.S. Dept. of Agriculture.
- 2. Reid, D. A., and G. A. Wiebe, 1968, Barley: Origin, Botany, Culture, Winter Hardiness, Genetics, Utilization Pests, Agriculture Handbook No. 338, U.S. Dept. of Agriculture. pp. 61 84.
- 3. Malting Barley Improvement Association, Milwaukee, Wisconsin, 1971, Barley Variety Dictionary.

COLOR: Nickerson's or any recognized color fan may be used to determine color of the described variety.

EXHIBIT D: Additional description of 'Selway'

'Selway' is a two rowed spring barley, Hordeum vulgare. When seeded at Culdesac, Idaho, on or about April 20, 'Selway's' first flowering averages June 24 or 65 days after seeding. This is four days later than Piroline's first flowering date at Culdesac.

'Selway's' early growth is erect. Basal leaf sheaths are glabrous. At heading the flag leaf droops, tending to twist. Plant height averages 85.6 cm, that being about 2 cm taller than 'Piroline'. 'Selway' has a very high tillering capacity and moderate to good lodging resistance. 'Selway's' northern Idaho yield is about 8% greater than 'Piroline's'. 'Selway' matures slightly later than does 'Piroline'.

'Selway' is a two rowed, nutans type with a long lax head.
Lemma awns are rough, longer than head. Basal rachis
internode is slightly long, tending to curve. 'Selway's'
grain is of medium size, pale cream colored with slightly to
semi wrinkled hulls. Aleurone is white, rachilla hairs long.
Lemma base is slightly creased to depression, ventral furrows
clabrous.

EXHIBIT E: Statement for the basis of applicant's ownership

Plant Breeders 1 Inc. is the breeder of the two rowed, feed type spring barley 'Selway'.